

Title (en)  
Electrochemical energy storage device

Title (de)  
Elektrochemische Energiespeichervorrichtung

Title (fr)  
Dispositif d'accumulation d'énergie électrochimique

Publication  
**EP 2605304 A2 20130619 (DE)**

Application  
**EP 13001294 A 20100114**

Priority  
• DE 102009005124 A 20090119  
• EP 10700500 A 20100114

Abstract (en)  
The device has a set of storage cells (2) stacked in a stacking direction (S) into a cell block (1), where the storage cells are connected to each other within the block in parallel and/or in series. A tensioning device holds the set of storage cells together between pressure plates (18, 20), where each storage cell is held in an edge region between retaining end frames (12, 16) and a retaining intermediate frame (14). Each storage cell has an active part (4) with a structure for receiving and outputting electric energy by an electrochemical reaction, and the region surrounds the active part.

Abstract (de)  
Elektroenergie-Speichervorrichtung, welche eine Mehrzahl von Speicherzellen (2) flacher Form aufweist, wobei mehrere Speicherzellen (2) in einer Stapelrichtung (S) zu einem Zellblock (1) gestapelt sind und durch eine Spannvorrichtung zwischen zwei Andruckplatten (18, 20) zusammengehalten werden, und wobei die Speicherzellen (2) innerhalb des Zellblocks (1) parallel und/oder in Reihe miteinander verschaltet sind, dadurch gekennzeichnet, dass die Andruckplatten (18, 20) rahmenförmig ausgebildet sind und dass jede Speicherzelle (2) in ihrem Randbereich (6) zwischen zwei Rahmenelementen (12, 14, 16) gehalten wird. (Fig. 1)

IPC 8 full level  
**B60L 11/18** (2006.01); **H01M 10/04** (2006.01); **H01M 10/50** (2006.01); **H01M 50/178** (2021.01); **H01M 50/211** (2021.01); **H01M 50/503** (2021.01); **H01M 50/517** (2021.01); **H01M 50/522** (2021.01); **H01M 50/528** (2021.01); **H01M 50/529** (2021.01); **H01M 50/548** (2021.01); **H01M 50/557** (2021.01); **H01M 50/562** (2021.01); **H01M 10/02** (2006.01); **H01M 10/052** (2010.01); **H01M 10/42** (2006.01)

CPC (source: EP KR US)  
**B60L 50/64** (2019.01 - EP KR US); **B60L 58/26** (2019.01 - EP KR US); **H01M 10/0436** (2013.01 - EP KR US); **H01M 10/0481** (2013.01 - EP KR US); **H01M 10/052** (2013.01 - KR); **H01M 10/425** (2013.01 - EP KR US); **H01M 10/613** (2015.04 - EP KR US); **H01M 10/625** (2015.04 - EP KR US); **H01M 10/647** (2015.04 - EP KR US); **H01M 10/6555** (2015.04 - EP KR US); **H01M 10/6556** (2015.04 - EP KR US); **H01M 10/6561** (2015.04 - EP KR US); **H01M 10/6567** (2015.04 - EP KR US); **H01M 10/6569** (2015.04 - EP KR US); **H01M 50/103** (2021.01 - KR); **H01M 50/178** (2021.01 - EP KR US); **H01M 50/211** (2021.01 - EP KR US); **H01M 50/503** (2021.01 - EP KR US); **H01M 50/517** (2021.01 - EP KR US); **H01M 50/522** (2021.01 - EP KR US); **H01M 50/528** (2021.01 - EP KR US); **H01M 50/529** (2021.01 - EP KR US); **H01M 50/548** (2021.01 - EP KR US); **H01M 50/557** (2021.01 - EP KR US); **H01M 50/562** (2021.01 - EP KR US); **H01M 50/597** (2021.01 - EP KR US); **H01M 10/052** (2013.01 - EP US); **H01M 50/103** (2021.01 - EP US); **Y02E 60/10** (2013.01 - EP KR US); **Y02P 70/50** (2015.11 - EP KR); **Y02T 10/70** (2013.01 - EP KR US)

Citation (applicant)  
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**WO 2010081704 A2 20100722; WO 2010081704 A3 20100923**; BR PI1006929 A2 20190924; CA 2749996 A1 20100722; CN 102308412 A 20120104; CN 102308412 B 20140416; DE 102009005124 A1 20100729; EP 2387804 A2 20111123; EP 2387804 B1 20140604; EP 2605301 A2 20130619; EP 2605301 A3 20130821; EP 2605302 A2 20130619; EP 2605302 A3 20131218; EP 2605303 A2 20130619; EP 2605303 A3 20131218; EP 2605304 A2 20130619; EP 2605304 A3 20131218; EP 2605305 A2 20130619; EP 2605305 A3 20140115; EP 2605306 A2 20130619; EP 2605306 A3 20131218; JP 2012515421 A 20120705; KR 20120006973 A 20120119; US 2012156537 A1 20120621

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